

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/828,623A
Source: IFWO
Date Processed by STIC: 6/14/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/828,623A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 06/14/2005

PATENT APPLICATION: US/10/828,623A

TIME: 14:17:49

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\06142005\J828623A.raw

3 <110> APPLICANT: Carr, Daniel
 4 Lipkowski, Andrzej
 5 Kream, Richard
 6 Misicka-Kesik, Aleksandra
 8 <120> TITLE OF INVENTION: Novel Chimeric Analgesic Peptides
 10 <130> FILE REFERENCE: 2004117-0008
 12 <140> CURRENT APPLICATION NUMBER: 10/828,623A
 13 <141> CURRENT FILING DATE: 2004-04-21
 15 <160> NUMBER OF SEQ ID NOS: 43
 17 <170> SOFTWARE: PatentIn version 3.2
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 15
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: e-endorphin
 27 <400> SEQUENCE: 1
 29 Thr Gly Gly Phe Met Thr Ser Glu Ser Gln Thr Pro Leu Val Thr
 30 1 5 10 15
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 4
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Artificial
 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: endomorphin-1
 41 <400> SEQUENCE: 2
 43 Tyr Pro Trp Phe
 44 1
 47 <210> SEQ ID NO: 3
 48 <211> LENGTH: 4
 49 <212> TYPE: PRT
 50 <213> ORGANISM: Artificial
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: endomorphin-2
 55 <400> SEQUENCE: 3
 57 Tyr Pro Phe Phe
 58 1
 61 <210> SEQ ID NO: 4
 62 <211> LENGTH: 7
 63 <212> TYPE: PRT
 64 <213> ORGANISM: Artificial
 66 <220> FEATURE:
 67 <223> OTHER INFORMATION: dermorphin

What is
the source of
genetic
material?

same error

Previously
annotated
submission
included an
Error summary sheet
which indicated that
the <223> explanation
Does Not Comply in Artificial
Corrected Diskette Needs Sequence

P.P. 1-5
needed
to
indicate
source of
genetic
material

(Error summary
sheet is included
in this
annotated raw
sequence listing, too)

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Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\06142005\J828623A.raw

69 <400> SEQUENCE: 4
71 Tyr Ala Phe Gly Tyr Pro Ser
72 1 5
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 7
77 <212> TYPE: PRT
78 <213> ORGANISM: Artificial
80 <220> FEATURE:
81 <223> OTHER INFORMATION: b-casomorphin (bovine)
83 <400> SEQUENCE: 5
85 Tyr Pro Phe Pro Gly Pro Ile
86 1 5
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 7
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: b-casomorphin (human)
97 <400> SEQUENCE: 6
99 Tyr Pro Phe Val Glu Pro Ile
100 1 5
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 4
105 <212> TYPE: PRT
106 <213> ORGANISM: Artificial
108 <220> FEATURE:
109 <223> OTHER INFORMATION: morphiceptin
111 <400> SEQUENCE: 7
113 Tyr Pro Phe Pro
114 1
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 5
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial
122 <220> FEATURE:
123 <223> OTHER INFORMATION: leu-enkephalin
125 <400> SEQUENCE: 8
127 Tyr Gly Gly Phe Leu
128 1 5
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 5
133 <212> TYPE: PRT
134 <213> ORGANISM: Artificial
136 <220> FEATURE:
137 <223> OTHER INFORMATION: met-enkephalin
139 <400> SEQUENCE: 9
141 Tyr Gly Gly Phe Met
142 1 5
145 <210> SEQ ID NO: 10

OK, source is indicated

OK

morphiceptin

leu-enkephalin

met-enkephalin

RAW SEQUENCE LISTING

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TIME: 14:17:49

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\06142005\J828623A.raw

146 <211> LENGTH: 4
 147 <212> TYPE: PRT
 148 <213> ORGANISM: Artificial
 150 <220> FEATURE:
 151 <223> OTHER INFORMATION: dalda
 153 <400> SEQUENCE: 10
 155 Tyr Arg Phe Lys
 156 1
 159 <210> SEQ ID NO: 11
 160 <211> LENGTH: 4
 161 <212> TYPE: PRT
 162 <213> ORGANISM: Artificial
 164 <220> FEATURE:
 165 <223> OTHER INFORMATION: PL017
 167 <400> SEQUENCE: 11
 169 Tyr Pro Phe Pro
 170 1
 173 <210> SEQ ID NO: 12
 174 <211> LENGTH: 5
 175 <212> TYPE: PRT
 176 <213> ORGANISM: Artificial
 178 <220> FEATURE:
 179 <223> OTHER INFORMATION: Dadle
 181 <400> SEQUENCE: 12
 183 Tyr Ala Gly Phe Leu
 184 1 5
 187 <210> SEQ ID NO: 13
 188 <211> LENGTH: 6
 189 <212> TYPE: PRT
 190 <213> ORGANISM: Artificial
 192 <220> FEATURE:
 193 <223> OTHER INFORMATION: Dslet.
 195 <400> SEQUENCE: 13
 197 Tyr Ser Gly Phe Leu Thr
 198 1 5
 201 <210> SEQ ID NO: 14
 202 <211> LENGTH: 5
 203 <212> TYPE: PRT
 204 <213> ORGANISM: Artificial
 206 <220> FEATURE:
 207 <223> OTHER INFORMATION: X = pen is penicillamine, or 3-mercapto-(D) Valine
 210 <220> FEATURE:
 211 <221> NAME/KEY: misc_feature
 212 <222> LOCATION: (2)..(2)
 213 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 215 <220> FEATURE:
 216 <221> NAME/KEY: misc_feature
 217 <222> LOCATION: (5)..(5)
 218 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

This is not explained in <2207-2223> section.
 The Error Summary sheet in previously annotated
 submission indicated that "Artificial Sequence or
 Unknown"

in
 <213> response
 needed
 explanation
 in <2207-2223>
 section.

RAW SEQUENCE LISTING

DATE: 06/14/2005

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Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\06142005\J828623A.raw

220 <400> SEQUENCE: 14

(W) 222 Tyr Xaa Gly Phe Xaa

223 1 5

226 <210> SEQ ID NO: 15

227 <211> LENGTH: 7

228 <212> TYPE: PRT

229 <213> ORGANISM: Artificial

231 <220> FEATURE:

232 <223> OTHER INFORMATION: deltorphin I

234 <400> SEQUENCE: 15

236 Tyr Ala Phe Asp Val Val Gly

237 1 5

240 <210> SEQ ID NO: 16

241 <211> LENGTH: 7

242 <212> TYPE: PRT

243 <213> ORGANISM: Artificial

245 <220> FEATURE:

246 <223> OTHER INFORMATION: deltorphin II

248 <400> SEQUENCE: 16

250 Tyr Ala Phe Glu Val Val Gly

251 1 5

254 <210> SEQ ID NO: 17

255 <211> LENGTH: 7

256 <212> TYPE: PRT

257 <213> ORGANISM: Artificial

259 <220> FEATURE:

260 <223> OTHER INFORMATION: dermenkephalin

262 <400> SEQUENCE: 17

264 Tyr Met Phe His Leu Met Asp

265 1 5

268 <210> SEQ ID NO: 18

269 <211> LENGTH: 16

270 <212> TYPE: PRT

271 <213> ORGANISM: Artificial

273 <220> FEATURE:

274 <223> OTHER INFORMATION: dynorphin A

276 <400> SEQUENCE: 18

278 Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn

279 1 5 10 15

282 <210> SEQ ID NO: 19

283 <211> LENGTH: 8

284 <212> TYPE: PRT

285 <213> ORGANISM: Artificial

287 <220> FEATURE:

288 <223> OTHER INFORMATION: Dyn (1-8)

290 <400> SEQUENCE: 19

292 Tyr Gly Gly Phe Leu Arg Arg Ile

293 1 5

296 <210> SEQ ID NO: 20

RAW SEQUENCE LISTING

DATE: 06/14/2005

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TIME: 14:17:49

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\06142005\J828623A.raw

297 <211> LENGTH: 13
298 <212> TYPE: PRT
299 <213> ORGANISM: Artificial
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Dyn (1-13)
304 <400> SEQUENCE: 20
306 Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys
307 1 5 10
310 <210> SEQ ID NO: 21
311 <211> LENGTH: 11
312 <212> TYPE: PRT
313 <213> ORGANISM: Artificial
315 <220> FEATURE:
316 <223> OTHER INFORMATION: SP
318 <400> SEQUENCE: 21
320 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met
321 1 5 10
324 <210> SEQ ID NO: 22
325 <211> LENGTH: 12
326 <212> TYPE: PRT
327 <213> ORGANISM: Artificial
329 <220> FEATURE:
330 <223> OTHER INFORMATION: SP-glycine
332 <400> SEQUENCE: 22
334 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly
335 1 5 10
338 <210> SEQ ID NO: 23
339 <211> LENGTH: 13
340 <212> TYPE: PRT
341 <213> ORGANISM: Artificial
343 <220> FEATURE:
344 <223> OTHER INFORMATION: SP-Glycine-Lysine
346 <400> SEQUENCE: 23
348 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys
349 1 5 10
352 <210> SEQ ID NO: 24
353 <211> LENGTH: 14
354 <212> TYPE: PRT
355 <213> ORGANISM: Artificial
357 <220> FEATURE:
358 <223> OTHER INFORMATION: SP-Glycine-Lysine-Arginine
360 <400> SEQUENCE: 24
362 Ala Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg
363 1 5 10
366 <210> SEQ ID NO: 25
367 <211> LENGTH: 12
368 <212> TYPE: PRT
369 <213> ORGANISM: Artificial
371 <220> FEATURE:

IMPORTANT

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/14/2005
PATENT APPLICATION: US/10/828,623A TIME: 14:17:50

Input Set : A:\New England-0008.ST25.txt
Output Set: N:\CRF4\06142005\J828623A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; Xaa Pos. 2,5

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43

VERIFICATION SUMMARY

DATE: 06/14/2005

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Input Set : A:\New England-0008.ST25.txt

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L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0